

Title (en)  
LIGHT SOURCE APPARATUS AND IMAGE PROJECTION APPARATUS

Title (de)  
LICHTQUELLENVORRICHTUNG UND BILDPROJEKTIONSVORRICHTUNG

Title (fr)  
APPAREIL DE SOURCE LUMINEUSE ET APPAREIL DE PROJECTION D'IMAGES

Publication  
**EP 3570106 A1 20191120 (EN)**

Application  
**EP 19173786 A 20190510**

Priority  
JP 2018094136 A 20180515

Abstract (en)  
A light source apparatus (100) includes a light emitting element (101) configured to emit first light, a wavelength conversion element (105) configured to convert part of first light into second light having a wavelength different from that of the first light, and to emit the second light and unconverted light that is the first light which is not converted into the second light, and an optical element (103) configured to cause the first light from the light emitting element to enter the wavelength conversion element, and the second light and the unconverted light from the wavelength conversion element to travel in a direction different from a direction of the light emitting element. The wavelength conversion element emits the second light and the unconverted light as linear polarization light.

IPC 8 full level  
**G03B 21/20** (2006.01); **G03B 33/06** (2006.01)

CPC (source: CN EP US)  
**G02B 27/283** (2013.01 - US); **G03B 21/204** (2013.01 - CN EP US); **G03B 21/2066** (2013.01 - US); **G03B 21/2073** (2013.01 - EP US); **G03B 33/06** (2013.01 - EP); **G03B 21/006** (2013.01 - US); **G03B 33/12** (2013.01 - US)

Citation (applicant)  
JP 2015106130 A 20150608 - SEIKO EPSON CORP

Citation (search report)  
• [XAYI] WO 2016184522 A1 20161124 - BARCO NV [BE]  
• [XY] WO 2014024218 A1 20140213 - PANASONIC CORP [JP], et al  
• [X] CN 102722074 B 20150729  
• [Y] JP 2016145881 A 20160812 - SEIKO EPSON CORP  
• [Y] US 2014240676 A1 20140828 - MAES DIRK L A [BE], et al

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 3570106 A1 20191120**; **EP 3570106 B1 20220420**; CN 110488561 A 20191122; CN 110488561 B 20220208; JP 2019200280 A 20191121; JP 7106349 B2 20220726; US 11300861 B2 20220412; US 2019353996 A1 20191121

DOCDB simple family (application)  
**EP 19173786 A 20190510**; CN 201910386539 A 20190510; JP 2018094136 A 20180515; US 201916410065 A 20190513